

B&W Pantex – OSF Underground Piping

March 2009

Presented by:

Steve Patterson – Pantex Plant
CAIS/FIMS Administrator, CAS Manager



- At Pantex, Facilities Information Management System (FIMS) identifies our underground water line OSFs at the highest level

FIMS - Property - OSF - Microsoft Internet Explorer provided by ITM [Version 6 SP1]

Address: <https://fims.doe.gov/newfims/common/controller.jsp?navtype=s&m=1&s=7&t=&extradata=propertyType=5>

Links: BWXT Pantex, Indus International Software for Asset and Customer Management, Yahoo!, Customize Links, Free Hotmail, Windows Marketplace, Windows Media

FIMS Property Administration Reports

Building OSF Land Trailer

Current Location: Pantex Site Ofc - Pantex Site Office - Pantex [Change](#)

Search: Go

Property ID	Property Name	Owned/ Leased	Program Office
18-002A	Leased Storage	DOE Leased	NNSA
PXAT 460	Site Prep, Grading, and Landscaping	DOE Owned	NNSA
PXAT 470-01	Misc Road, Walks, Paved Areas - MS	DOE Owned	NNSA
PXAT 470-02	Roads, Walks, Paved Areas - ME	DOE Owned	NNSA
PXAT 480	Fences and Barriers	DOE Owned	NNSA
PXAT 490	Other Improvements to Land	DOE Owned	NNSA
PXAT 501	Misc. Building Systems	DOE Owned	NNSA
PXAT 550-01	Other Structures - MS	DOE Owned	NNSA
PXAT 550-02	Other Structures - ME	DOE Owned	NNSA
PXAT 610	Voice/Data Communications	DOE Owned	NNSA
PXAT 615	Electrical Distribution	DOE Owned	NNSA
PXAT 620	Fire Alarm Systems	DOE Owned	NNSA
PXAT 625	Gas Distribution - Miscellaneous	DOE Owned	NNSA
PXAT 630	Irrigation Systems	DOE Owned	NNSA
PXAT 635	Railroad System	DOE Owned	NNSA
PXAT 640	Sewage System	DOE Owned	NNSA
PXAT 645	Steam System	DOE Owned	NNSA
PXAT 650	Water Systems	DOE Owned	NNSA

©Copyright 2006 United States Department of Energy All Rights Reserved
For more information [Contact Us](#)

FIMSWeb Version 1.12
[View Privacy Statement](#)

Done

Start | BWXT P... | Novell ... | Microso... | Microso... | FullShot... | Microso... | FIMS - ... | Internet

2:27 PM

*This is a partial list of Pantex's OSFs.

Microsoft Excel - CAS Master Building List.xls

File Edit View Insert Format Tools Data Window Help Adobe PDF

Type a question for help

100% Arial 9 B I U

Reply with Changes... End Review...

A1 PXAT ID

	A	B	C	D	E	F	G	H	I	J	K	L
	PXAT ID	FIMS/CAIS Asset ID #	OSF Description	Sq. Ft.	Impt	Rotation	Time it takes to inspect	Preferred Month to Inspect	Discipline			
50	650.1	PXAT 650	ME - Domestic Water System		MDNC	2	2 mos		Mech/Elec			
51	650.2	PXAT 650	ME - HPFL		MDNC	2	2 mos		Mech			

52

D&D Bldgs & Leased Bldgs / Support-Essential-Critical / OSFs / New Bldg Classification /

Ready NUM

start Nov... 2 M... Pant... FullS... Micro... 2009 Cost... 3:46 PM

Our water system OSF listed in FIMS must be broken down into more manageable Condition Assessment Survey (CAS) inspection units.

Contractors work to replace a domestic water valve



New water valve
being installed



Contractor installing new high density
polyethylene piping (HDPE)



Microsoft Excel - Underground Piping data.xls

File Edit View Insert Format Tools Data Window Help Adobe PDF

Type a question for help

10 B I U

These are key identifying numbers when retrieving CAIS data from specific domestic water line IU's

	A	B	C	D	E	F	G	H	I	J	K	L
	AS_ID	IU_LOC_VALUE	IU_KEY_SEQ	IU_CSLT_CODE	IU_LOC_VALUE	ESC	TYPE_NAME	IU_QT	Unit	Cond	Yr	IU_COMMENT
6	PXAT 650	650.1	93185	S	ZONE 12 Z12 DOM WTR SYS VALVES	8" #12EV7, 8" #12EV16	Valves, steel, cast, gate, flanged, 150 lb., 10"	2	EACH	POOR	1962	REPLACEMENT OF THE MAINLINE LOCATED BETWEEN VALVES 12EV7, AND 12EV16. THIS REPLACEMENT WILL ENTAIL REPLACING APPROXIMATELY 160' OF 8" MAINLINE WITH 10" HDPE PIPING, AND TWO EA. 8" VALVES. THIS MAIN CROSSES UNDER THE RAMP IN ONE LOCATION. NOTE THAT THERE ARE 3 EA. FACILITY/FIRE HYDRANT TIE-INS ON THIS PARTICULAR STRETCH OF MAINLINE. ORIG IU #53033 COND CHANGED FROM FAIR TO POOR 7/13/05 BASED ON NEW PROBLEMS WITH THE WTR LINES. REPLACE APPROX. 160' OF 8" MAINLINE WITH 10" HDPE PIPING. WHEN COMPLETED UPDATE IU #73423.
7	PXAT 650	650.1	93186	S	ZONE 12 Z12 DOM WTR SYS PIPING	PIPING, 10"	Pipe cast iron, soil, B & S, no hub, 10" diameter	160	LNFT	POOR	1962	GOES WITH PIPING IU #93186.
8	PXAT 650	650.1	93187	S	ZONE 12 Z12 DOM WTR SYS PIPING	TRENCHING FOR PIPING, 160' OF 10"	TRENCHING, COMMON EARTH EXCAVATOR, 1/2 :1 SLOPE, 4' WIDE, 6' DEEP, 1/2 CY BK Reducer, plastic, high density polyethylene (HDPE), single wall, welded, 10" x 8" diam., DR 11, add 1 weld per joint, excludes hangers, trenching, backfill, hoisting or digging equipment.	160	L.F.	POOR	LIFE	COND OBTAINED FROM IU #53034. LINE INSPECTED 2005 BY CJ. THIS IU TO BE WORKED WITH #93186. POC TOMMY HAMMER X7486.
9	PXAT 650	650.1	93190	S	ZONE 12 Z12 DOM WTR SYS	REDUCER, 10" X 8"	Tee, plastic, high density polyethylene (HDPE), single wall, welded, 10" diam., DR 11, add 1 weld per joint, excludes hangers, trenching, backfill, hoisting or digging equipment.	2	EACH	FAIR	1962	COND OBTAINED FROM IU #53034. LINE INSPECTED 2005 BY CJ. THIS IU TO BE WORKED WITH #93186. POC TOMMY HAMMER X7486.
10	PXAT 650	650.1	93191	S	ZONE 12 Z12 DOM WTR SYS	TEE, 10"		1	EACH	FAIR	1962	
11												
12												
13												
14												

Sheet1 Sheet2 Sheet3

Filter Mode

NUM

*This is a partial snapshot of OSF DM query data saved to a spreadsheet

Microsoft Excel - Underground Piping data.xls

File Edit View Insert Format Tools Data Window Help Adobe PDF

Type a question for help

10 B I U

AS_ID

AS_ID

These are key identifying numbers when retrieving CAIS data from specific high pressure fire loop IU's

	A	B	C	D		H	I	J	K	L		
	AS_ID	IU_LOC_VALUE	IU_KEY_SEQ	IU_CSLT_CODE	IU_LOC_VALUE	ESC	TYPE_NAME	IU_QTY	Unit	Cond	Yr	IU_COMMENT
1	AS_ID	5	SEQ	CODE	IU_LOC_VALUE	ESC	TYPE_NAME	Y	Unit	Cond	Yr	IU_COMMENT
2	PXAT 650	650.2	53686	ZONE 12MAA	HPFL, 10", PHASE 3	HPFL - PHASE 3	Public Water Utility Distribution Piping, piping HDPE, butt fusion joints, 40' lengths, 10" diameter, SDR 21	9430	L.F.	POOR	2003	REPLACEMENT OF MAIN HPFL LINES - THESE LINES ARE DEFICIENT, BEYOND THEIR LIFE CYCLE, AND ARE PLANNED FOR REPLACEMENT IN FY 2003 PER B.SANNING
3	PXAT 650	650.2	53691	ZONE 12MAA	HPFL, 6", PHASE 3	HPFL - PHASE 3	Public Water Utility Distribution Piping, piping HDPE, butt fusion joints, 40' lengths, 6" diameter, SDR 21	2907	L.F.	POOR	2003	REPLACEMENT OF LEAD-IN HPFL LINES. THESE LINES ARE DEFICIENT, BEYOND LIFE CYCLE, AND ARE PLANNED FOR REPLACEMENT IN FY 2003 PER B.SANNING
4	PXAT 650	650.2	80091	ZONE 12MAA	HPFL, 6", PHASE 3, 12-99	PIPE, HDPE, 6" LEAD-IN FOR HPFL	Public Water Utility Distribution Piping, piping HDPE, butt fusion joints, 40' lengths, 6" diameter, SDR 21	53	L.F.	POOR	2003	THIS IU CREATED FOR PROJ REPLACING LEAD-IN HPFL LINE W/8" PIPE (REFER TO DRWVG #120990F04.DGN, SHT F4 AND #120990F05.DGN, SHT F5).
5	PXAT 650	650.2	80128	ZONE 12MAA	HPFL, 6", PHASE 3, 12-99	ELL, 6", 90 DEG, FOR HPFL LEAD-IN	Public Water Utility Distribution Piping, piping HDPE, butt fusion joints, fittings, elbows, 90 degree, 6" diameter, SDR 21	3	EACH	POOR	2003	THIS IU CREATED FOR PROJ REPLACING LEAD-IN HPFL LINE W/8" PIPE (REFER TO DRWGS #120990F04.DGN, SHT F4 AND #120990F05.DGN, SHT F5).
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												

Sheet1 Sheet2 Sheet3

Filter Mode

NUM

start

FullShot... Novell G... Pantex ... Microso... 2 Micr... 3 Micr...

9:35 AM

*This is a partial snap shot of OSF DM query data saved to a spreadsheet

Address <https://fims.doe.gov/newfims/common/controller.jsp?navtype=s8m=1&s=7&t=8&x=tradata=propertyType=5>

FIMS

Current Location:

Pantex Site Ofc - Pantex Site Office - Pantex
[Change](#)

Property ID	Property Name	Owner
18-002A	Leased Storage	DOE
PXAT 460	Site Prep, Grading, and Landscaping	DOE
PXAT 470-01	Misc Road, Walks, Paved Areas - MS	DOE
PXAT 470-02	Roads, Walks, Paved Areas - ME	DOE
PXAT 480	Fences and Barriers	DOE
PXAT 490	Other Improvements to Land	DOE
PXAT 501	Misc. Building Systems	DOE
PXAT 550-01	Other Structures - MS	DOE
PXAT 550-02	Other Structures - ME	DOE
PXAT 610	Voice/Data Communications	DOE
PXAT 615	Electrical Distribution	DOE
PXAT 620	Fire Alarm Systems	DOE
PXAT 625	Gas Distribution - Miscellaneous	DOE
PXAT 630	Irrigation Systems	DOE
PXAT 635	Railroad System	DOE
PXAT 640	Sewage System	DOE
PXAT 645	Steam System	DOE
PXAT 650	Water Systems	DOE

CAIS Official DM Cost
are uploaded to the
appropriate FIMS Asset

In Summary

- ❑ The OSF PXAT ID numbering system allows us to more easily retrieve select underground piping data from CAIS.
- ❑ The CAIS DM exports to FIMS are in no way affected by this numbering system.
- ❑ Using the PXAT ID numbering system better equips us to perform CAS underground inspections via communications with Subject Matter Experts (SME's) in a timely and effective manner.
- ❑ B&W Pantex is proud of its ability to readily track, retrieve, and report OSF data with confidence and accuracy to support our many customer requirements!

Questions!

